

L6 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2000 ACS

(FILE 'HOME' ENTERED AT 15:01:30 ON 27 OCT 2000)

FILE 'MEDLINE, CANCERLIT, EMBASE, BIOTECHDS, CAPLUS' ENTERED AT 15:01:41
ON 27 OCT 2000

L1 5952112 S POLYMER OR MICROSPHERE OR MICROCAPSULE OR MATRIX OR DNA
OR NU
L2 67257 S CROWN ETHER OR POLYDENTATE OR CRYPTATE# OR POLYCROWN OR
POLYE
L3 22704 S L2 AND L1
L4 18396 S CHELATOR OR POLYCHELATOR
L5 18 S L4 AND L3
L6 11 DUP REM L5 (7 DUPLICATES REMOVED)
L7 2929285 S DNA OR NUCLEIC OR POLYNUCLEOTIDE OR GENETIC OR VECTOR OR
CARR
L8 545 S L7 AND L3
L9 114226 S GENE TRANSFE? OR GENE DELIVERY OR GENE THERAPY OR DNA
TRANSFE
L10 13 S L9 AND L8
L11 8 DUP REM L10 (5 DUPLICATES REMOVED)
L12 103693 S COMPACT## OR CONDESNSE#
L13 0 S L12 AND L8
L14 27 S L12 AND L4
L15 14 DUP REM L14 (13 DUPLICATES REMOVED)
L16 1211 S L2 AND L7
L17 2 S L16 AND L12
L18 2 DUP REM L17 (0 DUPLICATES REMOVED)
L19 15 S L16 AND L9
L20 10 DUP REM L19 (5 DUPLICATES REMOVED)
L21 5 S L16 AND POLYLYSINE
L22 5 DUP REM L21 (0 DUPLICATES REMOVED)
L23 139896 S POLYLYSINE OR LYSINE
L24 110 S L23 AND L2
L25 1 S L24 AND L12
L26 50 S L24 AND L1
L27 45 DUP REM L26 (5 DUPLICATES REMOVED)
L28 545 S L16 AND L1
L29 18 S L28 AND THERAPY
L30 13 DUP REM L29 (5 DUPLICATES REMOVED)
L31 2736 S L4 AND L7
L32 2 S L31 AND L12
L33 35 S L31 AND L9
AN 1997:113426 CAPLUS
DN 126:122483
TI Chelating polymers as contrast agents for medical imaging
IN Hollister, Kenneth Robert; Keller, Kenneth Edmond; Wei, Dong; Peng, Xin;
Ladd, David Lee; Snow, Robert Allen
PA Nycomed Imaging A/s, Norway; Cockbain, Julian
SO PCT Int. Appl., 31 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT.1
PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 9640274 A2 19961219 WO 1996-GB1308 19960603
 WO 9640274 A3 19970213
 W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE,
 ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS,
 LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD,
 SE, SG
 RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
 IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN
 US 5801228 A 19980901 US 1995-478803 19950607
 CA 2223456 AA 19961219 CA 1996-2223456 19960603
 AU 9658415 A1 19961230 AU 1996-58415 19960603
 EP 831930 A1 19980401 EP 1996-919953 19960603
 R: DE, ES, FR, GB, IT, IE
 CN 1192160 A 19980902 CN 1996-195898 19960603
 NO 9705713 A 19980202 NO 1997-5713 19971205
 PRAI US 1995-478803 19950607
 WO 1996-GB1308 19960603

AB The invention provides polymeric polychelants contg. ***polymer***
 repeat units of the formula [L-Ch-L-B](where Ch is a ***polydentate***
 chelant moiety; L is an amide or ester linkage; B is a hydrophobic group
 providing a carbon chain of at least 4 carbon atoms between the L linkages
 it interconnects) or a salt or chelate thereof, with the proviso that
 where Ch is 2,5-biscarboxymethyl-2,5-diazahex-1,6-diyl, the polychelant is
 metalated with lanthanide or manganese ions or B provides a carbon chain
 of at least 10 carbon atoms between the L linkages it interconnects and
 their salts and chelates. The paramagnetic polychelates of the
 polychelants of the invention have remarkably high R1 relaxivities. An
 example complex is Gd(III)-1,6-hexanediamine-DTPA ***polymer***
 complex.

L6 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2000 ACS

AN 2000:68361 CAPLUS

DN 132:127724

TI Chelating systems for use in the delivery of compounds to cells

IN Wolff, Jon A.

PA Mirus Corporation, USA

SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

PI WO 2000003738	A1	20000127	WO 1999-US16095	19990716
------------------	----	----------	-----------------	----------

W: JP

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
 PT, SE

PRAI US 1998-93230 19980717

AB ***Chelator*** contg. compds. are utilized in the delivery of mols.,
 polymers, ***nucleic*** acids and genes to animal cells. At least one
 chelator such as ***crown*** ***ether*** is attached to a
 polymer and then assocd. with another ***polymer*** such as
 DNA. An ion is then added to the mixt. thereby forming condensed
 DNA. In condensed form and in complex with the ***chelator***

DNA can be delivered to a cell. Polyacrylamidobenzo-18-crown-6 was prepd. and cation binding as well as interaction with polylysine and

L11 ANSWER 8 OF 8 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD

AN 1994-11653 BIOTECHDS

TI Triplex ***DNA*** formation bound to a chemical linker;
DNA sequence; potential herpes simplex virus ***gene***
therapy

PA Triplex-Pharm.; Baylor-Coll.Med.

PI WO 9415616 21 Jul 1994

AI WO 1993-US12618 28 Dec 1993

PRAI US 1992-998235 30 Dec 1992

DT Patent

LA English

OS WPI: 1994-248879 [30]

AB A new m-gap triplex forming oligonucleotide (TFO) (I), contains two or more TFO, each able to bind to contiguous target sites on a duplex ***DNA***, and chemical linkers connecting this TFO and sufficiently long to allow binding. (I) has 2 or more TFO and suitable linkers include ***polyether***, peptide, linear polymers and branched polymers containing amino acids or guanidinium side chains. Optionally, a ***DNA***-damaging agent (II) is attached to the linker. Treatment of herpes simplex virus infection or generally any disease treatable by damaging native or foreign ***DNA*** is also claimed. By decomposing the target site into a series of isolated homopurine or homopyrimidine region, duplex binding sites without simple homopurine/homopyrimidine asymmetry can be accommodated. (I) when coupled to (II) are useful as site-specific ***DNA*** damaging agents for treating diseases in human and veterinary medicine, specifically herpes simplex virus-1 infection. Without (II), (I) may inhibit functioning of the target site in the duplex, displace the duplex from its target site, or inhibit transcription/translation of a gene under control of the bound site.

L27 ANSWER 20 OF 45 CAPLUS COPYRIGHT 2000 ACS

AN 1995:305593 CAPLUS

DN 122:75613

TI Polychelants containing macrocyclic chelant moieties

IN Sieving, Paul F.; Watson, Alan D.; Quay, Steven C.; Rocklage, Scott M.

PA USA

SO U.S., 16 pp. Cont.-in-part of U.S. Ser. No.335,162, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5364613	A	19941115	US 1990-464865	19900116
CA 2051648	AA	19901008	CA 1990-2051648	19900405
WO 9012050	A1	19901018	WO 1990-EP565	19900405
W: AU, CA, FI, HU, JP, NO, SU, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE				
AU 9054235	A1	19901105	AU 1990-54235	19900405
AU 656304	B2	19950202		

EP 474642 A1 19920318 EP 1990-906169 19900405
 EP 474642 B1 19960626
 R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE
 EP 481526 A1 19920422 EP 1991-118887 19900405
 EP 481526 B1 19970312
 R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE
 JP 04504436 T2 19920806 JP 1990-505940 19900405
 HU 60277 A2 19920828 HU 1990-3650 19900405
 AT 139790 E 19960715 AT 1990-906169 19900405
 ES 2088428 T3 19960816 ES 1990-906169 19900405
 AT 150047 E 19970315 AT 1991-118887 19900405
 ES 2098299 T3 19970501 ES 1991-118887 19900405
 NO 9103920 A 19911127 NO 1991-3920 19911004
 NO 178866 B 19960311
 NO 178866 C 19960619
 US 5554748 A 19960910 US 1993-175989 19931230
 PRAI US 1989-335162 19890407
 US 1990-464865 19900116
 WO 1990-EP565 19900405
 OS MARPAT 122:75613
 AB Polychelants and their metal chelates are provided which are useful in diagnostic imaging and in radiotherapy and which comprise a plurality of macrocyclic chelant moieties, e.g. DOTA residues, conjugated to a polyamine backbone mol., e.g. ***polylysine***. To produce a site-specific polychelate, one or more of the macrocyclic chelant carrying backbone mols. may be conjugated to a site-directed macromol., e.g. a ***protein***. Thus, DOTA was reacted with iso-Bu chloroformate, and the resulting DOTA carboxycarbonic anhydride was reacted with poly-L-***lysine*** to give ***polylysine***-polyDOTA. The ***polylysine***-polyDOTA was complexed with Gd and the Gd(***polylysine***-polyDOTA) was coupled to human serum albumin. An MRI formulation and biodistribution data are included.

L34 ANSWER 15 OF 22 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD
 AN 1996-08791 BIOTECHDS

TI Immunochemically functional monoclonal antibody;
 or humanized antibody specific for a folic acid receptor antigen, for use in receptor-mediated ***gene*** ***transfer*** and cancer ***gene*** ***therapy*** by prodrug activation

AU Kull Jr F C; Fling M E; Stimmel J B

PA Wellcome

LO Greenford, UK.

PI WO 9614339 17 May 1996

AI WO 1995-GB2585 3 Nov 1995

PRAI GB 1994-22383 5 Nov 1994

DT Patent

LA English

OS WPI: 1996-251716 [25]

AB A new immunochemically functional monoclonal antibody (MAb) has a cysteine residue exposed on the surface, so that the residue is capable of being conjugated to a substance. The Cys residue may be in the variable region (but not in the complementarity determining region) or in the constant region (e.g. at position 442 in the heavy chain CH3 domain). The MAb (which may be G1 or G4 isotype) preferably binds to a mol.wt. 40,000 antigen or a folic acid receptor antigen, and may be a humanized antibody. The conjugate may be produced using a linker and a

chelator , and may be a radioimmunotherapy agent with 90-yttrium or 177-lutetium, or may be a ***gene*** ***therapy*** conjugate with ***DNA*** encoding an enzyme for prodrug activation in a cancer cell, under the control of a tissue-specific or cancer-specific transcriptional regulator, in a virus ***vector*** of liposome. The latter may be used for therapy of small cell and non-small cell lung carcinoma, prostate carcinoma and associated metastasis, or ovary type strains. (132pp)

L34 ANSWER 12 OF 22 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD

AN 1998-02739 BIOTECHDS

TI Delivery of physiologically active protein in vivo;
enzyme, hormone, growth factor, regulatory sequence or immunomodulator
gene ***transfer*** to heart muscle and tissue-specific
gene expression using a plasmid ***vector*** , for ***gene***
therapy

AU Wolff J A; Duke D J; Felgner P L

PA Vical; Wisconsin-Alumni-Res.Found.

LO San Diego, CA, USA; Madison, WI, USA.

PI US 5693622 2 Dec 1997

AI US 1995-480039 7 Jun 1995

PRAI US 1995-480039 7 Jun 1995

DT Patent

LA English

OS WPI: 1998-031790 [03]

AB A new method for delivering a protein, polypeptide or peptide agent to a mammal involves injecting a non-infectious non-integrating gene encoding the agent operably linked to a muscle-specific or heart-specific promoter, into cardiac muscle. The ***DNA*** is preferably free from transfection-facilitating protein, virus particle, liposome, charged lipid or calcium phosphate components. The protein may be immunologically native or foreign to the host. An immunosuppressive agent may be administered i.v. or to the heart prior to or simultaneously with ***DNA*** injection, to limit the immune response. Expression may be transient. The protein is preferably an enzyme, hormone, growth factor, regulatory sequence or immunomodulator. The ***DNA*** may be injected myocardially or into the heart ventricular wall, optionally in combination with a ***chelator*** , e.g. EDTA. A new method for delivering firefly luciferase (EC-1.13.12.7) to a rat heart muscle cell interior involves injecting a plasmid ***vector*** containing the luciferase gene and an RSV promoter. (38pp)

L34 ANSWER 11 OF 22 BIOTECHDS COPYRIGHT 2000 DERWENT INFORMATION LTD

AN 1998-02747 BIOTECHDS

TI Stabilizing high purity ***DNA*** by transfer to metal-free solution
and optionally lyophilizing;
for use as a ***nucleic*** acid vaccine and in ***gene***
therapy against e.g. influenza

AU Volkin D B; Evans R K; Bruner M

PA Merck-USA

LO Rahway, NJ, USA.

PI WO 9740839 6 Nov 1997

AI WO 1997-US6655 22 Apr 1997

PRAI US 1997-844525 18 Apr 1997; US 1996-17049 26 Apr 1996

DT Patent

LA English

OS WPI: 1998-032162 [03]

AB Highly purified ***DNA*** (I) is stabilized (optionally after removal of metal ions) by adding a solution free of metal ions (optionally after transfer to the metal free solution), combining with an amorphous sugar and lyophilizing. Also new are: stable ***DNA*** formulations containing (I), a non-reducing free radical scavenger (II), a salt and buffer, and stable ***DNA*** formulations containing metal-free ***DNA*** and (II). The method may be used to stabilize ***DNA*** for use in ***nucleic*** acid vaccines or ***gene*** ***therapy***, particularly influenza virus vaccines that encode proteins able to generate antibodies and cytotoxic-T-lymphocytes. (I) is from 1 or more of influenza virus, hepatitis A, B or C virus, HIV virus, human papilloma virus, varicella-zoster virus, or Mycobacterium tuberculosis. (II) is preferably ethanol, suitable salts include Na and K, and buffers include Tris-hydrochloride. The solution may include a metal ion ***chelator***, e.g. EDTA, nitrilotriacetic acid, etc. The vaccines contain separate ***DNA*** plasmids encoding hemagglutinin from 3 prevalent clinical strains and ***DNA*** constructs encoding the internal, consensus nucleoproteins and matrix proteins from A and B

WEST[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)**Search Results -**

Terms	Documents
polychelator	10

Database:

US Patents Full-Text Database
JPO Abstracts Database
EPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

polychelator

Refine Search:[Clear](#)**Search History****Today's Date: 10/27/2000**

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,JPAB,EPAB	polychelator	10	<u>L14</u>
USPT,JPAB,EPAB	110 and 18	16	<u>L13</u>
USPT,JPAB,EPAB	111 and 18	3	<u>L12</u>
USPT,JPAB,EPAB	110 same 18	3	<u>L11</u>
USPT,JPAB,EPAB	delivery or transfe\$ or therapy	1269893	<u>L10</u>
USPT,JPAB,EPAB	18 and 12	9	<u>L9</u>
USPT,JPAB,EPAB	17 with 15	51	<u>L8</u>
USPT,JPAB,EPAB	carrier or vector or microcapsule or microsphere or matrix	905020	<u>L7</u>
USPT,JPAB,EPAB	15 with 12	15	<u>L6</u>
USPT,JPAB,EPAB	14 with 11	871	<u>L5</u>
USPT,JPAB,EPAB	crown or polycrown or polydentate or cryptate or crown ether	48178	<u>L4</u>
USPT,JPAB,EPAB	crown or polycrown or polydentate or cryptate or crown ether	48178	<u>L3</u>
USPT,JPAB,EPAB	dna or nucleic or polynucleotide or protein or polypeptide	177231	<u>L2</u>
USPT,JPAB,EPAB	polymer or microcapsule or microsphere or lipid or liposome	577170	<u>L1</u>

WEST

Generate Collection

L13: Entry 14 of 16

File: USPT

Oct 2, 1984

US-PAT-NO: 4474963

DOCUMENT-IDENTIFIER: US 4474963 A

TITLE: Crown ether compositions with sidearms affording enhanced cation binding

DATE-ISSUED: October 2, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gokel; George W.	Greenbelt	MD	N/A	N/A

US-CL-CURRENT: 546/178; 546/281.7, 549/352, 549/353

CLAIMS:

I claim:

1. (4-allyl-2-methoxyphenoxy)methyl-15-crown-5.
2. (4-propyl-2-methoxyphenoxy)methyl-15-crown-5.
3. [4-(2-hydroxypropyl)-2-methoxyphenoxy]methyl-15-crown-5.
4. (8-quinolinyloxy)methyl-15-crown-5.
5. (2-methoxyphenoxy)methyl-15-crown-5.
6. 2-[2-(2-benzyloxyethoxy)ethoxy]ethoxymethyl-15-crown-5.

WEST

Generate Collection

L9: Entry 8 of 9

File: USPT

Nov 19, 1985

DOCUMENT-IDENTIFIER: US 4554362 A

TITLE: Bis-crown-ether derivatives and their use

DEPR:

The ion-selective membranes of the present invention may be used in the form of solid membrane or liquid membrane. The solid membrane may be formed by dispersing the above-mentioned bis-crown compound homogeneously in a water-insoluble solid organic polymer as carrier. The polymer is desired to have a property of forming a matrix for supporting the bis-crown compound, a neutral carrier, in the form of a membrane and preventing elution of the neutral carrier into an aqueous solution to be measured or the like. At the same time, the polymer is desired to have a property of enabling proper dispersion of potassium or the like ion contained in the aqueous solution to be measured into the matrix. As such polymer are used polyvinyl chloride, silicone rubber, polymethyl methacrylate and the like, usually.

DEPR:

On the other hand, the membrane of valinomycin is not affected by organic substances in blood such as protein enzyme, sugar and the like. Similarly, no substantial effect by the organic substances in blood was observed on the ion-selective membrane in accordance with the invention.

WEST

Generate Collection

L13: Entry 6 of 16

File: USPT

Apr 22, 1997

US-PAT-NO: 5622945

DOCUMENT-IDENTIFIER: US 5622945 A

TITLE: Rubyrin macrocycles

DATE-ISSUED: April 22, 1997

US-CL-CURRENT: 514/185; 514/183, 536/18.7, 540/145, 540/465, 540/472, 540/474

APPL-NO: 8/ 368336

DATE FILED: January 4, 1995

PARENT-CASE:

This application is a divisional of U.S. Ser. No. 08/015,208, filed Feb. 9, 1993, now U.S. Pat. No. 5,410,045 which is a continuation-in-part of U.S. Ser. No. 07/926,357, filed Aug. 4, 1992, now abandoned. The government owns rights in the present invention pursuant to NIH grant AI 28845.